IN THE CLAIMS

Please amend the claims as follows:

Claims 1-15 (Cancelled).

Claim 16 (Currently Amended). An isolated peptide, which consists of the amino acid sequence of SEQ ID NO.: 6 or an amino acid sequence that is at least 95 % identical thereto, which binds to IL-2R β -chain and exhibits lymphocyte stimulatory activity.

Claim 17 (Cancelled).

Claim 18 (Previously Presented). The peptide of Claim 16, which consists of the amino acid sequence of SEQ ID NO.: 6.

Claim 19 (Currently Amended). The peptide of Claim 16, which consists of an amino acid sequence that is at least 95 % identical to SEQ ID NO.: 6 with a conservative change of non-polar R-groups by other non-polar R groups in amino acids thereof, which peptide binds to IL-2R β -chain and exhibits a lymphocyte lymphocyte stimulatory activity.

Claim 20 (Currently Amended). The peptide of Claim 16, which consists of an amino acid sequence that is at least 95 % identical to SEQ ID NO:6 with a conservative change of uncharged polar R groups by other uncharged polar R groups in amino acids thereof, which peptide binds to IL-2R β -chain and exhibits a lymphocyte lymphocyte stimulatory activity.

Claim 21 (Currently Amended). The peptide of Claim 16; which consists of an amino acid sequence that is at least 75 % 95% identical to SEQ ID NO:6 with a conservative

change of charged polar R groups by other charged polar R groups in amino acids thereof, which peptide binds to IL-2R β -chain and exhibits a lymphocyte lymphocyte stimulatory activity.

Claim 22 (Currently Amended). The peptide of Claim 16, which is consists of an amino acid sequence that is at least 95 % identical to SEQ ID NO.: 6, wherein Lys is substituted for Arg, or Arg is substituted for Lys so that a positive charge is maintained, which peptide binds to IL-2R β -chain and exhibits a lymphocyte lymphocyte stimulatory activity.

Claim 23 (Currently Amended). The peptide of Claim 16, which is consists of an amino acid sequence that is at least 95 %identical to SEQ ID NO.: 6, wherein Glu is substituted for Asp, or Asp is substituted for Glu so that a negative charge is maintained, which peptide binds to IL-2R β -chain and exhibits a lymphocyte lymphocyte stimulatory activity.

Claim 24 (Currently Amended). The peptide of Claim 16, which is consists of an amino acid sequence that is at least 95 % identical to SEQ ID NO.: 6, wherein Ser is substituted for Thr, so that a free-OH group is maintained, which peptide binds to IL-2R β -chain and exhibits a-lymphocyte lymphocyte stimulatory activity.

Claim 25 (Currently Amended). The peptide of Claim 16, which is consists of an amino acid sequence that is at least 95 % identical to SEQ ID NO.: 6, wherein Gln is substituted for Asn so that a free-NH2 group is maintained, which peptide binds to IL-2R β -chain and exhibits a lymphocyte lymphocyte stimulatory activity.

Claim 26 (Previously Presented). The peptide of Claim 16, wherein said lymphocyte stimulatory activity comprises induction of SHC phosphorylation; or induction of the SHC/MAPK pathway.

Claim 27 (Previously Presented). The peptide of Claim 16, which consists of the sequence of SEQ ID NO:8.

Claim 28 (Previously Presented). A composition comprising the peptide of Claim 16 and a pharmaceutically acceptable carrier.

Claim 29 (Previously Presented). The composition of Claim 28, which further comprises one or more cytokines.

Claim 30 (Previously Presented). The composition of Claim 29, wherein said one or more cytokines are selected from the group consisting of IL-2, IL-4, IL-9, IL-7 or IL-15.

Claim 31 (Previously Presented). A method of detecting the presence of IL-2R in a mammalian biological sample, comprising

contacting the mammalian biological sample with the peptide of Claim 16 under conditions suitable to allow binding of IL-2R and the peptide;

detecting the presence or absence of binding, wherein the presence of binding indicates the presence of the IL-2R in the mammalian biological sample.

Claim 32 (Previously Presented). The method of Claim 31, wherein the peptide further comprises a detectable label.

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Claims 33-37 (Cancelled).

Claim 38 (Previously Presented). The peptide of Claim 16, which further comprises a detectable label.

Claim 39 (Previously Presented). A composition comprising the peptide of Claim 38 and a pharmaceutically acceptable carrier.

Claim 40 (Previously Presented). A kit comprising the peptide of Claim 16 and reagents for labeling the peptide and detecting the labeled peptide.

Claim 41 (Previously Presented). A kit comprising the peptide of Claim 38 and reagents for detecting the label.